

# Water Sustainability in Silicon Valley: A Vision for the Future

April 26, 2004



# City of San Jose Water Policy Goals

- A healthy, reliable and adequate supply of high quality water;
- Efficient, economic and sustainable use of water supplies;
- High-quality wastewater discharge into San Francisco Bay;
- Protection of public health and safety;
- Preservation and enhancement of habitats, ecosystems and endangered species; and
- Protection of surface and groundwater resources.



# Strategic Policy Directions

- Water Supply & Use
- Pollution Prevention
- Wastewater Treatment
- Ecosystem Protection
- Interagency Cooperation
- Education & Involvement
- Advocacy



# Key City Programs

- **Water Supply & Use**
  - Municipal Water System
  - South Bay Water Recycling
  - Water Conservation
- **Pollution Prevention**
  - Industrial Pretreatment
  - Stormwater/Urban Runoff Management
- **Wastewater Treatment**



# Key City Programs

- **Ecosystem Protection**

- Salt ponds and wetlands restoration planning and implementation
- Watershed Management Initiative
- City Policies for Sustainability

- **Interagency Cooperation**

- Countywide Urban Runoff Program
- Water Resources Protection Collaborative
- Collaborations with the Water District
- Regional Initiatives



# Municipal Water System

- Established 1961
- 4<sup>th</sup> Largest Retailer in Santa Clara Co
- Population Served : 102,000
- Potable Water : 7,000 million gallons/yr
- Industrial/Commercial Use: 35%
- Recycled Water : 650 million gallons/yr
- Annual Revenues: \$19,200,000



# South Bay Water Recycling

- **Goal:** Reduce freshwater discharges into sensitive salt marshes
- **Investment:** \$250M to date
- **Results:**
  - 60 miles of pipeline
  - 450 customers
  - 13 million gallons per day average reuse



# South Bay Water Recycling

- **Benefits:**

- Water supply for industrial operations, agriculture and landscape maintenance
- Reduced demands on potable water supplies.

- **Next steps:**

- SBWR Collaborative on:
  - Extension of the pipeline
  - Long term operations/maintenance of system
  - Advanced water treatment





# Water Conservation

- 2003 Average Dry Weather Flow: 100.1 MGD
- Indoor water conservation programs – co-funded with the Water District.
- Research on toilet flappers to reduce leaks
- Financial and technical support for business /industrial water conservation projects
- Outdoor water conservation program for low-income San Jose residents



# San Jose Santa Clara Wastewater Treatment Plant

- Serves 1.5 Million residents
- Serves 613,000 jobs
- Serves 450 industrial dischargers
- Plant Influent: 116.7 MGD
- Plant 2003 Dry Weather Discharge to the Bay: 100.1 MGD



# South Bay Salt Pond Restoration Effort

- Active involvement
- Sharing of data collected as part of our operations
- Participating in the stakeholder forum and workgroups.
- Potential use of recycled water for dilution ??



# **Stakeholder Processes / Regional Coordination**

- Watershed Management Initiative
- Countywide Urban Runoff Management
- City/District Coordination Process
- Bay Area Clean Water Agencies
- Regional Monitoring Program
- Bay Area Stormwater Management Agencies
- Bay Area Pollution Prevention Group



# Key City Policies for Sustainability

- Clean Bay Strategy
- Riparian Corridor Policy
- Sustainable City Policy
- General Plan
- Green Building Policies
- Water Policy
- Watershed Action Plan



# Discussion

## Questions/Answers

